

如何在資源有限的環境下做研究

陳煒

我的學生時代



立志當庸醫！



當我要考研究所申請**成績單**時...

- 全班 144 位

- 我總排名 **125** 名

當初為什麼開始做研究？



生存

沒有SCI paper 不能升主治

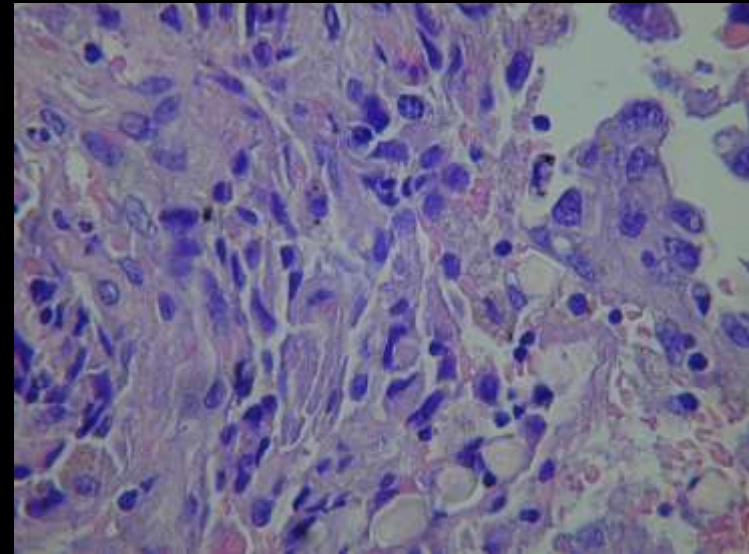
如何在資源有限的環境下做研究

1. 發掘你的動機



人生中第一篇SCI paper

Angiosarcoma with pulmonary metastasis presenting with spontaneous bilateral pneumothorax in an elderly man



如何在資源有限的環境下做研究

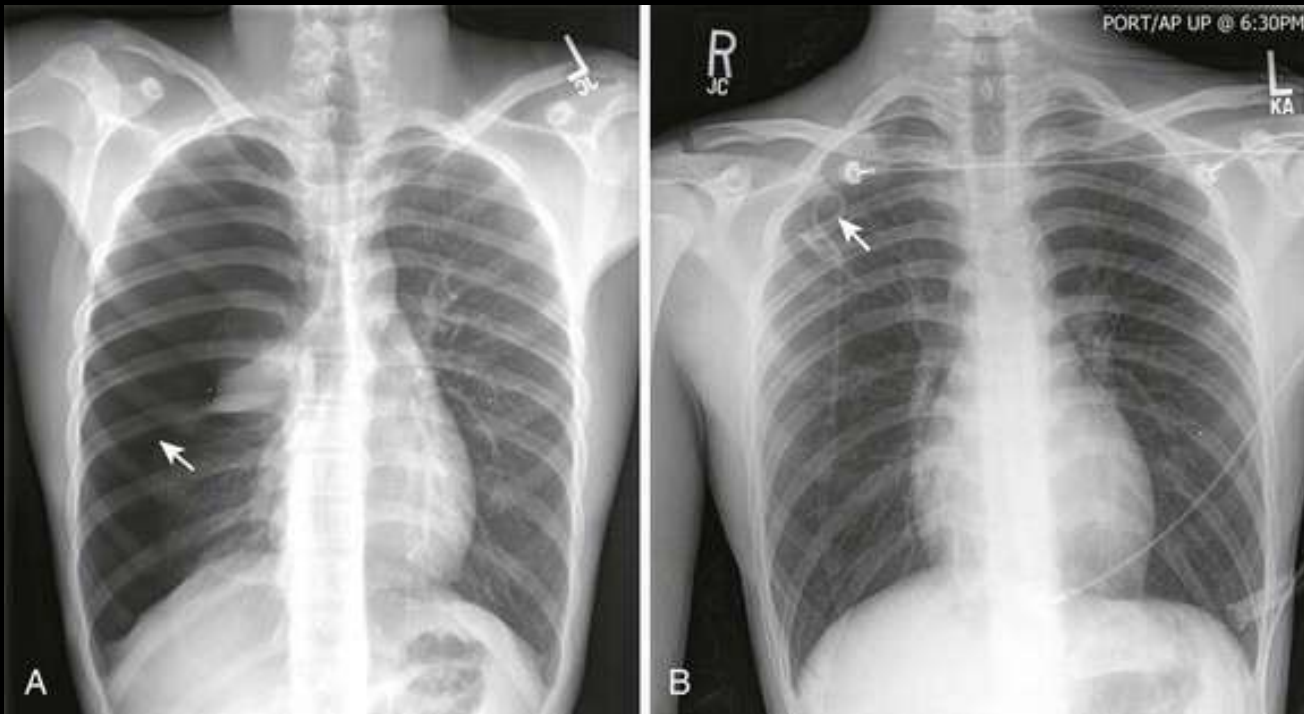
1. 發掘你的動機
2. 找到一個好的mentor



徐武輝 教授
中國附醫內科部主任

依循他人成功模式- I

- **Pigtail tube drainage in the treatment of spontaneous pneumothorax**





ELSEVIER

The
American Journal of
Emergency Medicine

www.elsevier.com/locate/ajem

Original Contribution

Pigtail catheters vs large-bore chest tubes for management of secondary spontaneous pneumothoraces in adults

Wen-Kai Tsai MD^a, Wei Chen MD^b, Jen-chih Lee MD^b, Wei-Erh Cheng MD^b,
Chia-Hung Chen MD^b, Wu-Huei Hsu MD^a, Chuen-Ming Shih MD, PhD^{b,c,*}

收錄至BTS guideline for pneumothorax

Shinn-Jye Liang
Chih-Yen Tu
Hung-Jen Chen
Chia-Hung Chen
Wei Chen
Chuen-Ming Shih
Wu-Huei Hsu

Application of ultrasound-guided pigtail catheter for drainage of pleural effusions in the ICU

S.-J. Liang · C.-Y. Tu · H.-J. Chen ·
C.-H. Chen · W. Chen (✉) · C.-M. Shih ·
W.-H. Hsu

Division of Pulmonary and Critical Care
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Fax: +886-4-22038883

Year in review

in Intensive Care Medicine 2009.

- **Pigtail catheter for the management of pneumothorax in mechanically ventilated patients.**

Lin YC, Tu CY, Liang SJ, Chen HJ, **Chen W***, Hsia TC, Shih CM, Hsu WH.

- **Cited by Chest “Pneumothorax in the Critically Ill Patient”** *Chest*. 2012;141(4):1098-1105.

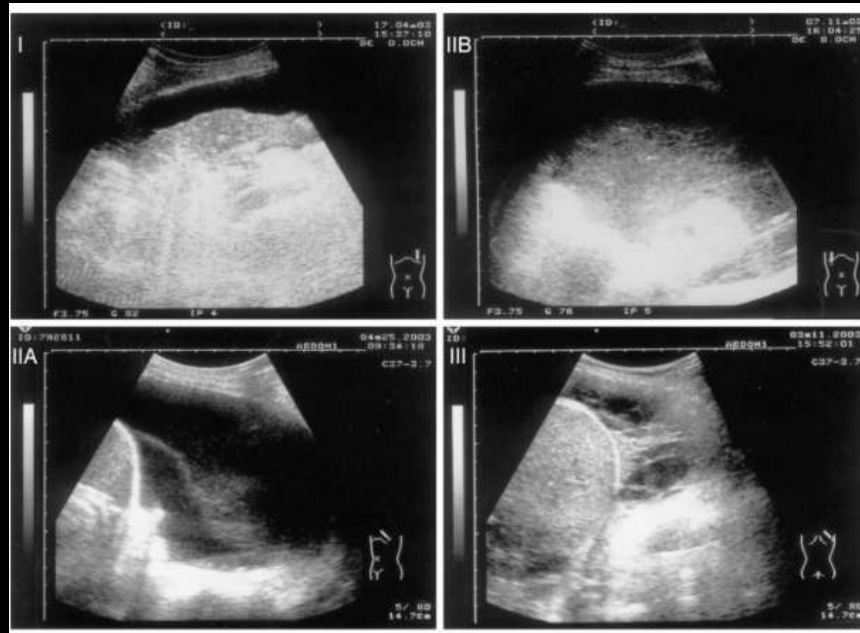
- **Ultrasound-guided pigtail catheters for drainage of various pleural diseases.**

Liu YH, Lin YC, Liang SJ, Tu CY, Chen CH, Chen HJ, **Chen W***, Shih CM, Hsu WH

- **Cited by 42, including *Current Opinion in Pulmonary Medicine, Chest, Clinics in chest medicine, Surgery***

依循他人成功模式- II

- **Pleural effusions in febrile medical ICU patients: chest ultrasound study.**



- Role of pleural fluid c-Reactive protein concentration in discriminating uncomplicated parapneumonic pleural effusions from complicated parapneumonic effusion and empyema.

Chen SC, Chen W, Hsu WH, Yu YH, Shih CM.

- Cited by 33, including *BTS guideline for pleural infection, Thorax, ERJ, Critical care*.....

- **Community-acquired thoracic empyema in young adults.**

Liang SJ, **Chen W***, Lin YC, Tu CY, Chen HJ, Tsai YL, Shih CM.

- **2次cited by Chest**
- **合資請助理的開始**

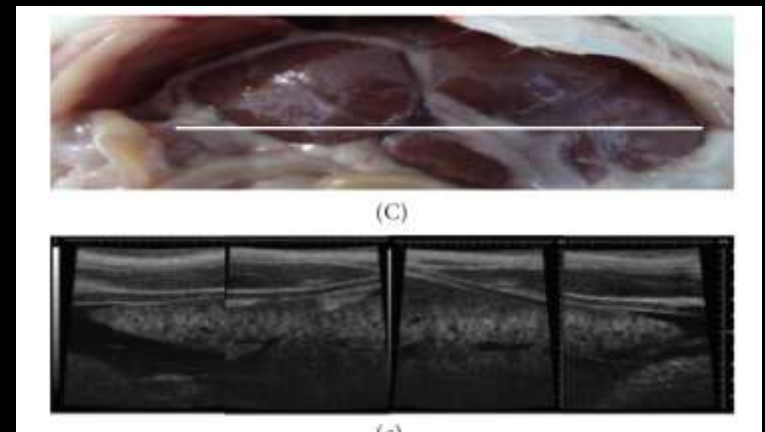
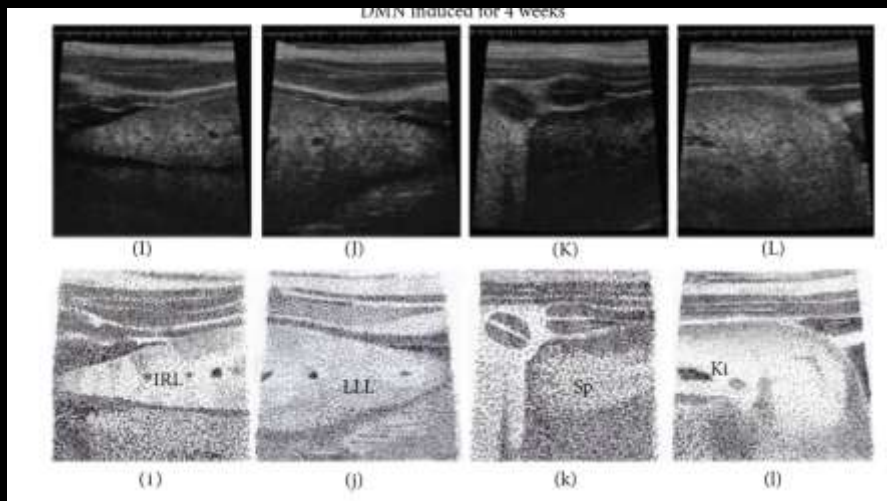
- Hospital-acquired thoracic empyema in adults: a 5-year study.

Chen W, Lin YC, Liang SJ, Tu CY, Chen HJ, Hang LW, Hsu WH, Shih CM.

- 有community-acquired 就有 hospital-acquired
- Cited by *European respiratory journal*, *Annals of the American Thoracic Society*, *Plos one*.....

插曲

- Chen JY, Chen HL, Wu SH, Tsai TC, Lin MF, Yen CC, Hsu WH, Chen W*, Chen CM.
- Application of high-frequency ultrasound for the detection of surgical anatomy in the rodent abdomen. The Veterinary Journal. 2012 Feb;191(2):246-52.(IF=2.323 Ranking: 3/141)



插曲

- 健保局資料庫研究
- 分析北醫林恆慶教授



Impact of Taiwan's Integrated Prospective Payment Program on Prolonged Mechanical Ventilation: A 6-Year Nationwide Study

Chin-Jung Liu SRRT, Chia-Chen Chu SRRT, Wei Chen MD, Wei-Erh Cheng MD,
Chuen-Ming Shih MD PhD, Yuh-Show Tsai PhD, Chih-Hsin Muo MSc,
and Pei-Chun Chen PhD

Rheumatol Int (2012) 32:1669–1673
DOI 10.1007/s00296-011-1847-5

ORIGINAL ARTICLE

Tuberculosis as a risk factor for systemic lupus erythematosus: results of a nationwide study in Taiwan

Yu-Chao Lin · Shinn-Jye Liang · Yi-Heng Liu ·
Wu-Huei Hsu · Chuen-Ming Shih ·
Fung-Chang Sung · Wei Chen

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2. 找到一個好的mentor
3. 依循前人成功的模式, 並樂意給人的心

你們要給人，就必有給你們的，並且用十足的升斗，連搖帶按、上尖下流地倒在你們懷裡。因為你們用什麼量器量給人，也必用什麼量器量給你們。

抱持解決臨床疑惑的心

- **Mortality conference:** A 30-year-old man without systemic disease was transferred from 苗栗大千H because of *fever for 3 days*
 - **Septic shock ,secondary to Klebsiella pneumoniae related liver abscess ,with multiple organ dysfunction (ARDS with respiratory failure,acute renal failure,and DIC) and septic embolism**
 - **Meningitis**
 - **Low extremities gangrene ,secondary to DIC and septic embolism**

Clinical outcome and prognostic factors of patients with pyogenic liver abscess requiring intensive care

Wei Chen, MD; Chia-Hung Chen, MD; Kuo-Liang Chiu, MD; Hsueh-Chou Lai, MD; Kuan-Fu Liao, MD; Yung-Jen Ho, MD; Wu-Huei Hsu, MD

IF: 6.594

Cited by 41, including Gastroenterology, Medicine, Plos one....

Crit Care Med. 2008 Apr;36(4):1184-8.

- **Role of gallium-67 scintigraphy in the evaluation of occult sepsis in the medical ICU.**
- Gallium-67 scintigraphy helped to detect new or additional infectious sites, particularly **bone, joint, and soft tissues**. However, differences in hospital stay and mortality were not observed between patients with positive and negative findings.

- Clinical Characteristics and Outcomes of Patients with Obstructive Sleep Apnoea Requiring Intensive Care.

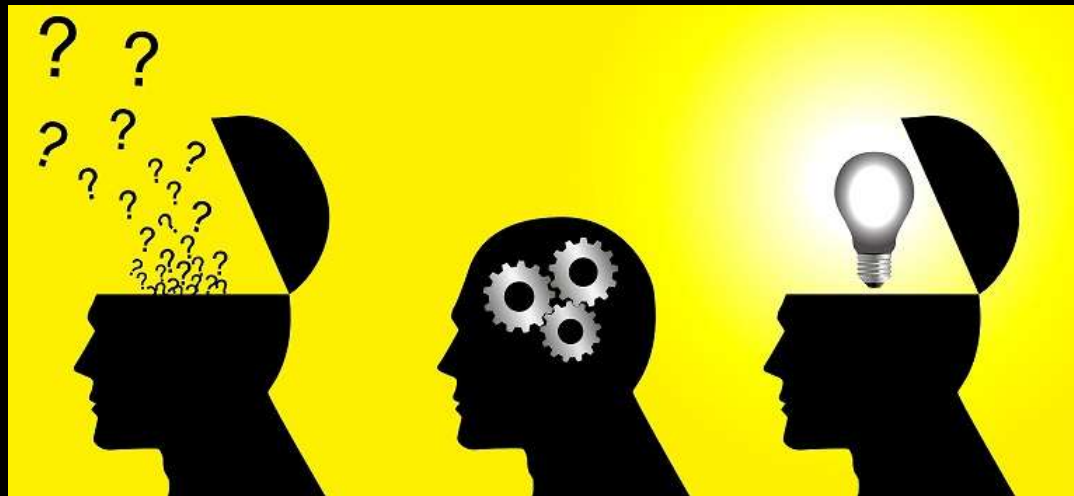
Hang LW, **Chen W***, Liang SJ, Lin YC, Tu CY,
Chen CH, Chiu KL.



- Fracture of the Maxillary Bone during Hyperbaric Oxygen Therapy. *Can. Med. Assoc. J.* 2008 Dec 2;179(12):1351
- Multiple Pulmonary Nodules. *American Family Physician.* 2009 Jul 1;80(1):75-6
- Metallic Stents for Rescuing a Patient with Severe Upper Airway Compression Due to Aortic Aneurysm. 2008 *American Journal of Emergency Medicine*
- *Klebsiella pneumoniae* Deep Neck Infection with Acute Necrotizing Esophagitis. *South.Med.J.* 2009 Feb;102(2):219

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4. 抱持解決臨床疑惑的心



2010年來嘉基



區域醫院做什麼研究！

看到這裡的需要

- Chen YJ, Lin MS, Chen CY, Shen CH, Chen W*. Ring-like calcifications of the kidney. *Kidney International*. 2011 Apr;79(7):792. IF:6.193 Rank:3/63 (4.7%)
- Lin MS, Chen CH, Chen W*. Right upper limb weakness following internal jugular vein cannulation. *QJM*. 2010 Nov 4 (In press) IF:2.627 Rank: 25/132 (18.9%) (corresponding author)
- Hsu KY, Lin MS, Chen W*. Pustular skin lesions in a patient with lung abscess. *QJM*. 2010 Nov 2 (In press) IF:2.627 Rank: 25/132 (18.9%) (corresponding author)

- Chen YJ, Lin MS, Hsu KY, Chen CR, Chen CM, Chen W*. Prevalence of Asymptomatic Peripheral Arterial Disease and Related Risk Factors in Younger and Elderly Patients in Taiwan. *Angiology*. 2013 Mar 18. (IF: 1.5)
- Lin MS, Hsu KY, Chen YJ, Chen CR, Chen CM, Chen W*. Prevalence and Risk Factors of Asymptomatic Peripheral Arterial Disease in Patients with COPD in Taiwan. *Plos one* 2013 May 22. (IF: 4.09)

- Chen CW, Chen YY, Lu CL, Chen SCC, Chen YJ, Lin MS, **Chen W***. Severe hypoalbuminemia is a strong independent risk factor for acute respiratory failure in COPD: a nationwide cohort study. International Journal of COPD 2015 . (IF:3.141)
- Lin CW, Chen YY, Chen YJ, Liang CY, Lin MS, **Chen W***. Prevalence, risk factors, and health-related quality of life of osteoporosis in patients with COPD at a community hospital in Taiwan. International Journal of COPD 2015 Jul 29;10:1493-500. (IF:3.141)
- Sun KS, Lin MS, Chen YJ, Chen YY, Chen SCC, **Chen W***. Is asymptomatic peripheral arterial disease associated with walking endurance in patients with COPD? International Journal of COPD 2015. (IF:3.141)

台灣COPD整合性照護計劃



守護健康

衛生福利部
國民健康署

2年500萬經費

啓蒙院內同仁

- Sung SF, Chen W, Ong CT, Chen YP. Successful thrombolytic therapy in a patient with infective endocarditis-related stroke. J Formos Med Assoc. 2012 Sep;111(9):521-2
- Sung SF, Huang YC, Ong CT, Chen W*. Validity of a computerised five-level emergency triage system for patients with acute ischaemic stroke. Emerg Med J. 2012 Jun 26

啓蒙院內同仁

- Association of betel **nut** chewing with chronic kidney disease: a retrospective 7-year study in Taiwan.
- Hsu YH, Liu WH, **Chen W**, Kuo YC, Hsiao CY, Hung PH, Jong IC, Chiang PC, Hsu CC.
- Nephrology (Carlton). 2011 Nov;16(8):751-7.

Association between betel-**nut** chewing and chronic kidney disease in men.

Chou CY, Cheng SY, Liu JH, Cheng WC, Kang IM, Tseng YH, Shih CM, Chen W.

Public Health Nutr. 2009 May;12(5):723-7.

與胸外張主任合作

- Chang JM, Cheng JH, Chen W*. An unusual cause of hemoptysis in a young woman. Ann Thorac Surg. 2012 May;93(5):1734
- Chang JM, Chen W*. Glomus tumor of the trachea. QJM. 2012 Oct 15.
- **Chang JM**, Lai WW, Yen YT, Tseng YL, Chen YY, Wu MH, Chen W*, Light RW. Apex-to-Cupola Distance Following VATS Predicts Recurrence in Patients With Primary Spontaneous Pneumothorax. Medicine (Baltimore). 2015 Sep;94(37):

院外合作

- Tsai KW, Yang SM, Lee JC, Wong HY, Shih CM, **Lin TH**, Tseng MJ, **Chen W***.
- Panay notoginseng Attenuates Bleomycin-induced Pulmonary Fibrosis in Mice. *Evidence-Based Complementary and Alternative Medicine. (IF: 4.77)*

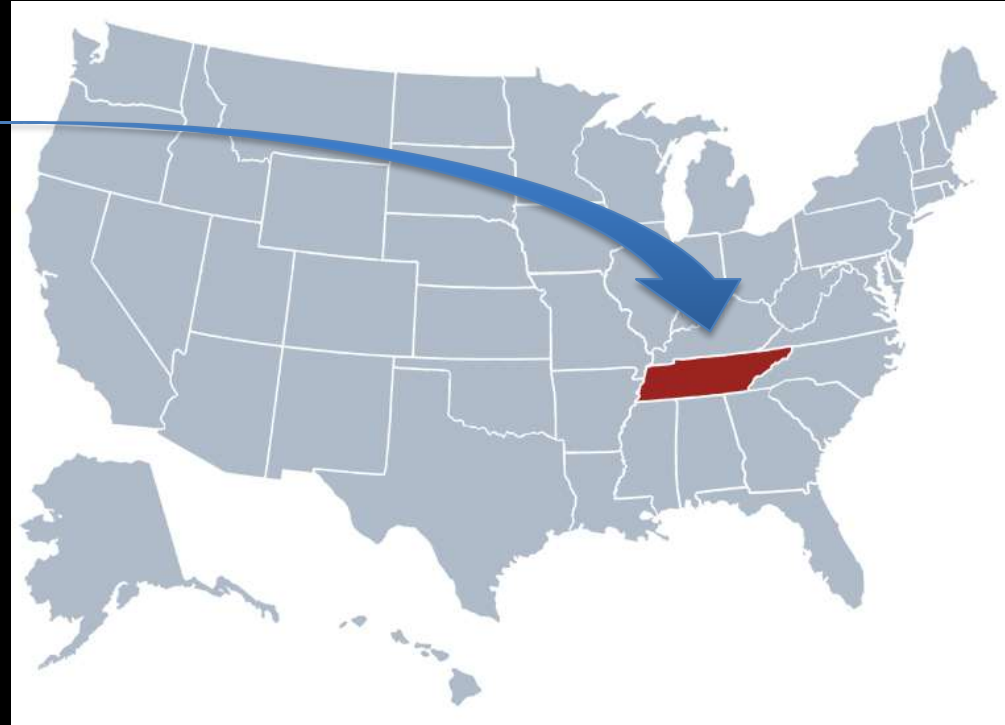
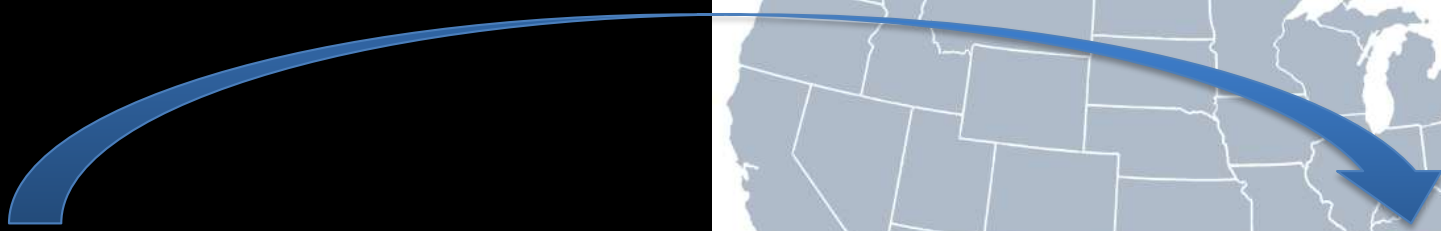
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4. 抱持解決臨床疑惑的心
5. 擁有一群志同道合的夥伴



經歷上帝的祝福

2013年7月



- **Chen W**, Janz DR, Bastarache JA, May AK, O'Neal HR, Bernard GR, Ware LB. Prehospital Aspirin Use Is Associated with Reduced Risk of Acute Respiratory Distress Syndrome in Critically Ill Patients: A Propensity-Adjusted Analysis. Critical Care Medicine 2015 Apr;43(4):801-7; (IF:6.147)
- **Chen W**, Ware LB. Prognostic Factors in the Acute Respiratory Distress. (Review article). Clinical and Translational Medicine. 2015 accepted
- **Chen W**, Janz DR, Shaver CM, Bernard GR, Bastarache JA, Ware LB. Clinical Characteristics and Outcomes are Similar in ARDS Diagnosed by SpO₂/FiO₂ Ratio compared with PaO₂/FiO₂ Ratio. Chest 2015 (IF:7.483)
- Shaver CM, **Chen W**, Janz DR, May AK, Darbar D, Bastarache JA, Ware LB. Atrial fibrillation is an independent predictor of mortality in critically ill patients. Critical Care Medicine 2015 accepted. (IF:6.147)
- **Chen W**, Chen YY, Tsai CF, Chen SC, Lin MS, Ware LB, Chen CM. Incidence and Outcomes of Acute Respiratory Distress Syndrome: A Nationwide Registry-Based Study in Taiwan, 1997 to 2011. Medicine 2015 (IF:5.723)

- Prehospital Aspirin Use Is Associated with Reduced Risk of Acute Respiratory Distress Syndrome in Critically Ill Patients: A Propensity-Adjusted Analysis. Critical Care Medicine 2015

科技部計劃

阿斯匹靈對高濃度氧導致急性肺損傷之防禦功效評估-以NF- κ B-luciferase 基因轉殖鼠呈現

(104-2314-B-705 -005) 經費110 萬

我成何等人！是因蒙神恩！

林前15:10



Take home message

1. 發掘你的動機
2. 找到一個好的mentor
3. 依循前人成功的模式, 並樂意給人的心
4. 抱持解決臨床疑惑的心
5. 擁有一群志同道合的夥伴
6. 反覆練習上面五個動作, 相信上帝會祝福您